

## The Polarizer-Synchronizer

(Continued from page 4)

4. The 1/8" drill rod is #1 knurled at one end for 1/16" and the other end is machined to a diameter of .124".

The axle is now inserted through the back of the Back Plate and pressed flush; the knurling is jammed in the bored hole (f) with the axle sticking out 1/8" into the Back Plate. It is on this projecting axle that the Boston Gear #G 133 is assembled.

5. Four holes are drilled in both Face Plate and Back Plate—for locking the unit together on final assembly.

### FINAL ASSEMBLY

The two gears #G133 are slipped on their respective axles in the Back Plate; the two geared flush Polaroid Filters are slipped into their respective end holes, making sure that the orientation marks face upward in the Back Plate (it being understood that the slip-on rings are considered the "back" of the Back Plate); and the remaining geared Polaroid Filter, with the 1/16" projection on each side, is now slipped into the center hole with the orientation mark facing upward.

The three filters are now aligned (via the scored orientation marks), the Front Plate screwed on, and, thrill of thrills, on the first hesitant twirl, all three filters rotate in unison.

### FINISHING

If painting the "Polarizer-Synchronizer" is desired, the unit must be disassembled. The Front Plate and Back Plate are cleaned with Phosphoric Acid, neutralized, and then one or two coats of Synthetic Enamel are applied.

HAPPY SHOOTING!!

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## February Field Trip

Washington's Birthday falls on Sunday this year which will give most of us a long week end. MSCers plan to take advantage of this by scheduling a field trip on Monday, February 23. Call Adelaide Galician for reservations, time and place to meet, etc.

Just in case the weather should not cooperate, we have planned an indoor trip. The plans are to go by bus from New York City to Riverhead, L.I. to visit and photograph a glass-blowing plant. The glass is blown by Bohemian glass-blowers using time-honored European methods.

When we have completed our shooting of the glass-blowers, we will adjourn to the Henry Perkins Hotel for Sunday dinner. The Henry Perkins is well-known for its excellent food. After we have eaten, Ludolph Burkhardt, noted glass photographer, will give a demonstration of the proper procedure for lighting and photographing glass. At the conclusion of Ludolph's demonstration, we will board our bus for the homeward trip.

The cost of the full-day trip will be approximately \$5.50 per person which covers bus fare and an excellent dinner. It is essential that you advise Adelaide Galician at once of the number in your party. Arrangements must be made for chartering a bus, the hotel must be notified, etc. The bus holds 46 people and we would like to fill it with MSCers, their families, and friends. So let's have a good turnout!

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## Stereo Format

(Continued from page 7)

ful, and will tell you about that in a succeeding article.

But I would like to say something about format in general. All sensitive photographers are, by training or by intuition, artists. They can compose a picture to any format. I have seen (and so have you) exhibitions of stereo in the conventional format that were superb in every respect, including most harmonious composition with great variety of subject matter.

I have heard newspaper photographers who have taken to using the 2 1/4 x 2 1/4 twin-lens reflex complain bitterly about how the newspaper cropped their pictures. These men are artists who composed to square format, which is a format that a newspaper never uses. It's the change in format that spoiled the picture.

Well, what is the conclusion of the whole matter. I would say that the conventional "vertical square" format is of very limited usefulness, compared to a horizontal format. In other words, you unnecessarily restrict yourself in your photographic enterprise by using it. On the other hand, being the sensitive artists that you are, most of you have overcome this handicap.

Equipment for the horizontal format (2 1/4 x 30 mm.) is available, and the mounted transparencies, for both viewing and projection, can be used with your present equipment.

More about equipment for the horizontal format next month. In the meantime, what are your thoughts on this subject?



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## Lightfoot on Lincoln

By ADELAIDE GALICIAN

On February 12, 1959, the nation will celebrate the 150th anniversary of the birth of Abraham Lincoln.

The Metropolitan Stereo Club will mark this event in a most fitting manner this year. On February 13, we will be privileged to view Fred S. Lightfoot's collection of historical stereo slides. Mr. Lightfoot will discuss some of the historical aspects of stereo photography with particular emphasis on the stereo portraits and pictures associated with Lincoln.

Frederick S. Lightfoot became interested in historic stereo views in 1942. Since that time he has built up a collection of early stereograms which has been purchased by the George Eastman House, a museum of photography in Rochester, N.Y. His collection includes, in addition to of Lincoln, views of early New York, steamboats, railroad engines, and many other American subjects. These have been chosen for their artistic or human interest value and their historical worth.

Mr. Lightfoot has made copy negatives of many rare and historic stereos held in various museums and private collections. Some of these, relating to Abraham Lincoln, have been published in 35 mm. form so that the general public might have the opportunity to enjoy them. We hope to have some of these sets available for sale at the February meeting.

Articles on Mr. Lightfoot's work and collections have appeared in "The Stereogram" and in "Image" magazine. He is a recognized authority often consulted by museums and private collectors concerning the value of antique stereos.

This will be the first time a program on this subject has been presented at MSC and we look forward to a most informative and interesting evening.

## The Peoples Choice

By GENE WROBLEWSKI

The people's choice has been made. The BEST of the BEST have been chosen.

During the course of our regular January meeting, a competition was held to determine the best slide from the past year's prize-winning and honorable mention slides as judged in the regular bi-monthly MSC competitions.

For the contest, a proud 29 of the 33 eligible slides were entered. Every member present filled out a ballot. However, three members, Paul Darnell, Richard Jefferson, and Ted Lambert, who each had at least five slides in the competition abstained from balloting. Newcomers as well as oldtimers had the opportunity of voicing their opinions on the ballot form.

When the smoke had cleared and the human IBM machines had calculated the results, the outcome was quite embarrassing to our president, Paul Darnell. He was forced into accepting the singular honor of taking first, second and third place awards in the contest. And Paul did not even vote!

The members applauded by ballot, the first award winner "Har-rump" and the second place slide "Heart of a Tulip" by casting a landslide number of votes for them. Closer in the balloting were the third place slide "Lone Traveller" by Paul Darnell, the fourth place slide "Glass" by Ted Lambert and the fifth award winner "Fishnet Curtains" by Richard Jefferson. Half a dozen slides were within several votes of fifth place, indicating strong competition for the awards.

At the conclusion of the evening, everyone, except Paul Darnell, departed muttering that famous Flatbush phrase of competition, "Wait till next year!"

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HAVE A PHOTOGRAPHIC FUN-FILLED  
FEBRUARY

PARTICIPATE IN MSC ACTIVITIES!  
DON'T MISS THE MEETING-FEBRUARY 13  
JOIN THE FIELD TRIPPERS (SEE PAGE 8)  
ATTEND YOUR REGIONAL WORKSHOP



EDITOR: PHYLLIS GALICIAN  
ULster 2-5770

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Millington 7-1500

The Metropolitan Stereo Club News is published in the interests of stereo information and education; for the benefit of MSC members and their friends in stereo throughout the country.

Permission is hereby granted to those who wish to make use of any of the information contained herein, providing that credit is given to the MSC News and the title and author of the article are mentioned.

Contributions are encouraged and we hope that this exchange of ideas will help to stimulate the interest of stereo enthusiasts everywhere. TYPED contributions should be addressed to: Miss Phyllis Galician, Editor, 11 Schermerhorn Street, Brooklyn 1, New York. All copy accepted is subject to whatever adaptation and revision that may be necessary.

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MEMBER

1959

## What They Say

EDITED BY -- WALTER GOLDSMITH

Our discussion, in past months, of PSA honors has raised the question of honors bestowed by photographic associations in other countries.

The Royal Photographic Society of Great Britain, in its Articles of Association, has this to say about MEMBERSHIP.

"Members are divided into six classes, namely, (i) Ordinary Members, (ii) Fellows, (iii) Associates, (iv) Honorary Fellows, (v) Honorary Members, and (vi) Junior Members."

It should be noted that no mention is made of honors here, as in PSA. The Fellowship, the Associateship, and the other honors awarded by the Honors Committee of PSA, do not exist, as such, in the Royal. They are merely classes of membership in the R.P.S., and they are, of course, not permanent as they are in PSA.

An APSA, for example, once awarded, remains with the recipient for life. An A.R.P.S. (they use the periods—we do not) is good only so long as the Associate is in good standing as a member. Once he is dropped from the membership rolls, he is obviously no longer an Associate. Upon rejoining the Society he must come in as an Ordinary Member again.

In the Royal Photographic Society, any Ordinary Member "desirous of becoming an Associate shall send an application to the Council setting forth his qualifications, and the Council shall decide whether the application shall be granted." In like manner, any Associate who may be desirous of becoming a Fellow has the privilege of making application for it. If the poor Fellow (no pun intended) falls in arrears in dues and is dropped, he must start from scratch again. As there have been cases where members of high qualifications were too modest to make application, the Council has been authorized to admit to Fellowship without such application.

Honorary Fellows and Honorary Members are not required to pay dues. Neither class of member, however, has the right to vote. The former "shall be distinguished persons, who from their position or attainments, are intimately connected with the science or art of photography, its practices and applications." The latter shall be "those who have rendered distinguished service to the Society or to Photography."

## Stereo Format

By CARREL I. TOD

Stereophotography today is almost universally taken on 35 mm. color film, and is almost universally of a width of exactly five sprocket holes on the 35 mm. film used. As these sprocket holes are 4.5 mm. apart, the actual width of the picture is 5 x 4.5 or 22.5 mm. The height is fixed by the film itself at 24 mm. This makes a slightly vertical picture, which simulates a square.

When I first started in stereo way back in 1950, I was told that this "square" format was chosen specifically because a stereo camera cannot be turned on its side. Both vertical and horizontal pictures cannot be taken; therefore, a square format is the best compromise between them. I have discovered that this explanation is completely wrong. The five-sprocket-hole width was chosen for convenience in the manufacture of the film advance mechanism, and the square format is not a compromise with anything. It is, in fact, a perfectly logical and usable format in and of itself.

I became dissatisfied with the vertical that posed as a "square" format and therefore, conducted two experiments.

I had taken some pictures with a regular 35 mm. camera before I bought my stereo. I divided these pictures into eight classes by subject matter. I then analyzed to see how many were vertical and how many horizontal. They ran from 45% to 98% horizontal, with 83% for the average. In only one class, that of our young daughter, Susan, was the vertical predominant and that one only slightly.

I then visited some art galleries. Painters have complete and perfect freedom when it comes to format. Again I related format to subject matter. I became so engrossed that I contemplated getting the exact measurements of the paintings and discovering the ratios of height to width used by the world's finest artists. (This is one of numerous activities for the future.) Here I discovered that the square format has its own distinct use. Again I discovered that the most useful format, if one has to be chosen, is the horizontal.

So I estimated that the square format was wrong for me about 90% of the time, whereas the horizontal format was wrong for me about 20% of the time. Therefore, I sought a stereo camera with a horizontal format. In this I have been quite successful.

(Continued on page 8)

## News about Youse

MSC has a new prospective member. ABE and RUTH RINGLE became the proud parents of a bouncing boy in November. Your camera will get a real workout now, Abe.



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Santa really rewarded our hard-working BEN SILBERSTEIN this year. He brought Ben a Jules Richard stereo camera and Ben hasn't stopped shooting since the big day.

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Joyful news from JOSEPH F. MCGUIRE! He was married in January and took off on a Caribbean cruise. Good luck and many happy years, Mr. and Mrs. McGuire.



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CHARLES MACIEJAK has been appointed Stereo Division representative to the Techniques Division Exhibition Committee of the Photographic Society of America. We don't know exactly what his duties are but we are sure if it has anything to do with equipment and gadgets, Charles is the man for the job!

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One of the two Stereo Realists stolen recently from ENGEL GALTUNG was returned to him just before he sailed for Sweden in December. It was recovered in a tailor shop on Ninth Avenue in Manhattan. Engel writes that he hopes to return to the United States in April.



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ADELE ORLANDO won't be able to attend the February meeting. She is in New York Hospital recuperating from the operation she underwent early this month. We are sure Adele will appreciate receiving a word of cheer from her many stereo friends.

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We announce with sorrow the death of RICHARD WEISS who passed away at the end of December. Mr. and Mrs. Weiss had been on an extended trip to Europe when he became ill in Italy. After spending some time in a hospital in Vienna, he recovered and returned home. A recurrence of the ailment after his return home caused his death. The membership extends its sincere sympathy to his widow, Mrs. Martha Weiss.



# All about Associates

## News and Notes

The KIM CLARKS of Kodiak, Alaska have added a little boy to their family. He has been named Kim Benton Clark. Kim, Sr. ran for the new State House of Representatives last fall. Kim and Shirl had a wonderful time campaigning even though "the other party" was the people's choice. The CLARKS hope to make it to the convention in Louisville this year, but in the meantime, have invited any MSCers who visit Alaska to stop in and visit. As Shirl says, "We live only an hour's plane ride beyond the end of the road at Homer. All comers are most welcome, we can always add more water to the soup."

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MR. and MRS. OSCAR SMIEL visited our January meeting. We were most happy to see them. Hope more of our AMs will find it possible to attend a meeting.

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JEAN BROOKS writes that BART is now back at his old love, photography. They have a fascinating new hobby, skin-diving. All they need now is an underwater box for their camera.

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MYRON HENDEE has been enclosing copies of the MSC *News* in the discussion section of his circuits. We think this is a wonderful way to garner some new AMs. If any of you should want extra copies of the *News* for this purpose, we will be glad to send them on to you. (We hope you want to keep your copies.)

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ASSOCIATE MEMBERSHIP  
Only \$5.00 PER YEAR

## New Member

DR. JESSE GOODMAN  
222 West 83rd Street  
New York 24, New York

TRafalgar 7-2144

## \* Starring You \*

Last month we announced plans to turn our April meeting over to our Associate Members. We are still making plans and hope you are, too!

We are sure that you are all busily choosing your slides for our all-star AM show. We want to make this evening one of the most interesting meetings MSC has ever had. However, we can't do it without your cooperation. We are looking forward to receiving ten or twelve slides which best represent your own point of view or pet phase of stereography, your portrait in stereo, and a short biographical note. These should be sent to Paul Darnell, 411 South Ridgewood Road, South Orange, New Jersey, by March 15, 1959.

We hope that those AMs who plan to be in New York this Spring will be able to schedule their trips to include our April 10th meeting. We are looking forward to meeting you on the screen and in person.

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NEXT AM COMPETITION - MARCH 13

## December Honors

Eight Associates entered 32 slides in the January AM competition. The judges were Don Forrer, Phyllis Galician, Lee Hon, Richard Jefferson, and Lisa Obert.

### FIRST AWARD

K. G. Oppenheimer "Onion Sprout"

### SECOND AWARD

W. H. Thomas "Scarlet Leader"

### THIRD AWARD

Alice Fryer "Experiment in Back Lighting"

### HONORABLE MENTION

F. H. Gillingham "Afton Villa Staircase"

Myron Hendee "Evening Glow"

Ruth Bauer "The Bad Egg"

MSC is gratified at the fine response this new series of competitions is receiving from its AMs. We hope that even more of you will enter slides in the MARCH COMPETITION, deadline, MARCH 11.

# Metropolitan Stereo Club

Meets Second Friday of Each Month

Carnegie Endowment for International Peace  
46th Street and First Avenue, United Nations Plaza, New York, N.Y.

## Program for February 13th

7:00pm ~ Get Together

COME EARLY! LISA OBERT WILL DEMONSTRATE THE ARROW 3-D AUTOMATIC VIEWER. BRING SOME OF YOUR OWN SLIDES—SEE FOR YOURSELF WHAT THE RHEOSTAT CONTROL CAN DO TO COMPENSATE FOR YOUR UNDEREXPOSED OR OVEREXPOSED SLIDES.

7:30pm ~ Historic Aspects of Stereo  
Frederick S. Lightfoot

9:15pm ~ Free Trip Sequence Competition

Guests Welcome

## Guests of MSC

Among our guests at the January meeting was Mrs. Oscar Smiel, wife of our Associate. We were also delighted to welcome Delmar G. Roos, friend and neighbor of our Lou Frohman. Delmar is a stereographer without a club. We hope he liked us and will come again soon.

MARJORIE HON

## New Members

IRIS F. EATON  
160 Henry Street  
New York, New York

GRamercy 7-0794

ARTHUR W. HANSEN  
Box 82  
Parlin, New Jersey

CLifford 7-4510

WALLACE S. WETTMAN  
1113 Ward Avenue  
Bronx 72, New York

TIvoli 2-8369

A HEARTY WELCOME TO MSC!

## Salon Dates

Lewis F. Miller advises that the Stockton-on-Tees Exhibition has been postponed until March 7. The original closing date was January 29.

CINCINNATI—Closes March 30. 4 slides \$1.25. Forms: Ruth Bauer, 3750 West Street, Mariemont, Cincinnati, Ohio.

WICHITA—Closes April 4. 4 slides \$1.00. Forms: Lucille M. Sire, 518 Peterson, Wichita 12. Kansas.

## Change of address

LOUISE JACOBSON  
434 Lafayette Street  
New York 3, New York

GRamercy 7-1653

Apt. E-1



## Do-it-yourself Department

Some time ago, Charles Maciejak caused a sensation at an MSC meeting by showing his "Polarizer-Synchronizer" (a set of three polarizing filters geared to turn in unison) to several members.

Impressed by its apparent complexity, some of us naively asked, "What is it for?" In simplest English, for our benefit, Charles explained that polarizing filters are used to reduce glare when photographing such

subjects as water, glass, and store windows. For stereo, of course, the filters must be a perfect match. To make focusing for maximum polarization simpler, Charles added a third filter for the viewfinder. When one of the three filters is turned, the other two rotate an equal amount.

Feeling that this was something the world should know about, we prevailed upon Charles to write the following article--

## The Polarizer-Synchronizer

By CHARLES A. MACIEJAK

### SOME HISTORY

K. G. Oppenheimer of California, while on a visit to New York a number of years ago, showed me a geared polaroid unit of his creation. I was fascinated by its construction and decided to make one of my own. An exchange of correspondence followed, resulting in the receipt of drawings showing the construction of his unit.

The basic concept is used here, but with a number of modifications and some new thoughts and ideas of my own. The name, "Polarizer-Synchronizer," is mine.

### MATERIALS REQUIRED

- 1 pc. of 6061-T6 Aluminum 0.14" thick (after machining).
- 1 pc. of 6061-T6 Aluminum 0.3" thick (after machining).
- 3 Polarizing Filters mounted in aluminum—outside diameter to be 1-3/16" by 3/16" thick.
- 3 Brass Gears 1-3/8" P.D. x 66 Teeth, 1/8" face (Boston Gear, Cat. No. G 145).
- 3 Brass Gears 3/8" P.D. x 18 Teeth, 1/8" face (Boston Gear, Cat. No. G 133).
- 1 Short Length of 1/8" Drill Rod.
- 4 F.H. Machine Screws (0-80 will do).
- 1 Lathe
- 2 Step Collets
- 1 Face Plate

### CONSTRUCTION

The actual procedure of machining is, of course, up to the individual. In my case, I proceeded as follows:

1. On the side of the metal mounted Polaroid Filter there is an orientation point for the filter. This mark has to be transferred to the edge of the filter (saw cut)

because the outside dimension has to be machined to 1.1775". The work was held in a step collet.

2. For the moving parts of the unit, I next took the three Boston Gears #G145 and placed them (one at a time) in the step collet. As the gears are 1/8" thick with a hub that is 1/2" in diameter and projects 1/4", extensive machining was necessary. When completed, all that remained was a gear ring with an I.D. of 1.1770" and 1/16" thickness. With the gear ring still in the step collet, I now took the machined Polaroid Filter and pressed it into position, being careful to have 1/16" of the filter projecting from either side of the gear ring.

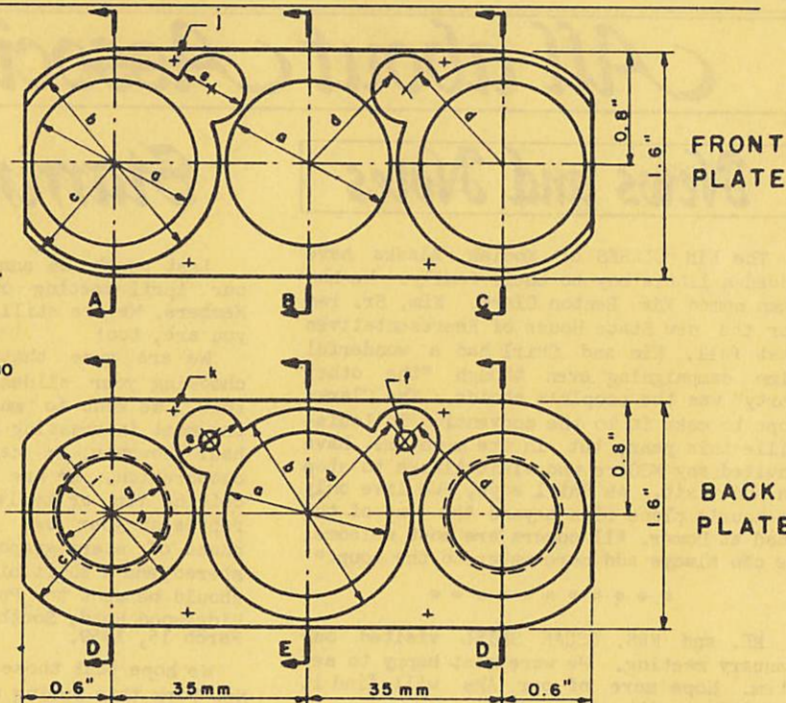
This procedure was repeated on all three assemblies, except that in the first and third assembly of gear ring and filter I machined the rim of the filter so that it was flat with the gear ring. In all three instances I made sure to also transfer the orientation mark to the gear rings.

3. The Front and Back Plates are carefully laid out. Where dimensions are noted to the thousandth of an inch, extreme care must be taken to hold these dimensions, otherwise, on final assembly, a binding of gears may occur resulting in a glorified headache!

Machining the holes for the retaining rings was completed by reaming them to the proper dimension. This step was necessary as the Back Plate had to be flopped over on the Face Plate, secured, dial indicated to a zero reading, and then all the excess material removed and the outside diameter of the slip-on rings held to their dimension. The prongs were made by slitting the slip-on ring with a fine toothed saw.

(Continued on page 8)

- a = 1.1800" Dia. hole
- b = 1.5" Dia. x 0.08" deep
- c = 0.8" Radius
- d = 0.877" Radius
- e = 0.5" Dia. x 0.08" deep
- f = 0.125" Dia. hole
- g = 0.78" Dia. hole of 'slip-on' adapter ring
- h = 0.84" Outside dia. of 'slip-on' adapter ring
- i = 1.1875" Dia. x 0.08" deep
- j = 3/64" Drill & Tap for 0-80 FH Screw (4 reqd.)
- k = No. 49 Drill & Countersink for 0-80 FH Screw (4 reqd.)
- l = 1.1770" Inside-Dia. hole of Gear Ring.
- m = 1.1775" Outside-Dia. of Polaroid Filter



"POLARIZER-SYNCHRONIZER"

MACIEJAK

